

## PRODUCT SAFETY DATA INFORMATION

Date: 9 September 2021

Data Sheet Number: PSDI\_IGF1\_Family Revision: 1

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### **SECTION 1 – Product Identification**

This 'Product Safety Data Information' Sheet covers Pall Medical Insufflator Gas Line filter sets, each employing a glass fibre (Pallflex®) hydrophobic filter medium within an acrylic body.

Product name(s): Insufflator Gas Line Filter

Part Number(s): Refer to Appendix 1

The filters detailed above are intended for patient protection in medical applications for removal of bacteria, viruses, scale and other contaminants from CO<sub>2</sub> and other medical gases on insufflator gas lines

For further information on Pall products, please visit Pall at <https://www.pall.com/en/about-pall.html>

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### **SECTION 2 - Hazards Identification**

Product definition: Article.

These products are not classified as hazardous according to REACH Regulation 1907/2006, or European CLP/GHS Regulation 1272/2008.

GHS Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

Special packaging requirements: None.

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### **SECTION 3 - Materials of Construction**

3.1 The products detailed in Section 1 are comprised of the following materials:

Filter assembly (all codes)

Material Name	CAS Number
Ceramic bonded hydrophobic membrane	Pall proprietary information
Cellulose membrane support	9004-34-6
Modified acrylic copolymer housing body	Polymer supplier proprietary information

Set components

Material Name	Product codes	CAS Number
Silicone rubber tubing	IGF1, IGF1K	63394-02-5
TOTM plasticised PVC tubing	IGF1C, IGF1CD, IGF1E, IGF1L, IGF1M, IGF1M-BULK, IGF1Q, IGF1R	9002-86-2/3319-31-1
Polycarbonate male luer (fixed)	IGF1M	25037-45-0
ABS male luer (rotating)	IGF1, IGF1C, IGF1CD, IGF1E, IGF1L, IGF1M, IGF1Q, IGF1R	9003-56-9
TOTM plasticised PVC suction connector	IGF1C, IGF1CD	9002-86-2/3319-31-1
Polypropylene quick connect adaptor	IGF1Q	9003-07-0
Polycarbonate female luer	IGF1, IGF1E, IGF1K, IGF1L	25037-45-0
ABS cap on female luer	IGF1, IGF1E, IGF1K, IGF1L	9003-56-9
Polyethylene cap on rotating male luer	IGF1, IGF1C, IGF1CD, IGF1E, IGF1K, IGF1L, IGF1M, IGF1Q, IGF1R	9002-88-4
Polypropylene rotating male luer locking collar	IGF1C, IGF1CD, IGF1E, IGF1K, IGF1L, IGF1M, IGF1Q, IGF1R	9003-07-0
ABS rotating male luer locking collar	IGF1	9003-56-9
Polypropylene 15mm male connector	IGF1R	9003-07-0

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These products are not known to contain BADGE, NOGE, or BFDGE.

Trace additives will be present in the plastic components.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the article.

There are no current SVHC substances known to be present in the finished articles above 0.1%.

There are no current ROHS2 Directive (2011/65/EU) and amendment (2015/863) substances of concern (including Lead, Cadmium, Mercury, Hexavalent Chromium, Polybrominated biphenyl (PBB), Polybrominated diphenyl ether (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Benzyl Butyl Phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)) known to be present in the materials employed in excess of the limits laid down, based on information from our suppliers and knowledge of substances used within Pall the manufacturing facility.

Pall Medical filters do not employ natural rubber latex, or latex derivatives in their construction.

Pall Medical products do not knowingly contain materials of direct animal origin i.e. animal parts, tissues, or body fluids however, to assist our customers in performing a TSE/BSE risk assessment, we are pleased to provide the following information:

Certain plastics are known to contain trace levels of additive (e.g. calcium stearate) which are manufactured from tallow. Pall Medical products may utilize components in the fluid pathway which are fabricated from plastic resins containing tallow-derived additives at trace levels, but Pall does not test for them.

Please be advised that bovine tallow-derived additives are not considered specified TSE/BSE risk materials according to the current revision of the U.S. **Code of Federal Regulations**, Title 21 of part 189.5, which defines specified risk material for human food and Regulation (EU) 722/2012 concerning medical devices manufactured using tissues of animal origin, in Article 4, specifically excludes tallow derivatives provided they have been processed under conditions at least as rigorous as those stated in Section 3 of Annex 1 as shown below:

- Trans-esterification or hydrolysis at not less than 200 °C for not less than 20 minutes under pressure (glycerol, fatty acids and fatty acid esters production),
- Saponification with NaOH 12 M (glycerol and soap production)
- Batch process: at not less than 95 °C for not less than 3 hours,
- Continuous process: at not less than 140 °C, under pressure for not less than 8 minutes or equivalent,
- Distillation at 200 °C.

The plastics raw materials we purchase have been processed with one of these steps. Pall continuously works to assure the safety of our products with respect to potential BSE/TSE transmission by working through our supply chain to obtain information regarding the possible use of animal-based material and to confirm specific sourcing and processing details where applicable

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### **SECTION 4 - First Aid Measures**

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### 4.1 First aid measures

Always address any contaminants present on the filter as the result of use.

Eye Contact:	Eye injury could result from physical impact. Get medical attention immediately.
Inhalation:	Inhalation is not considered a likely route of exposure for the filter product as supplied by Pall.
Skin Contact:	Wash with soap and water. If irritation persists, get medical attention.
Ingestion:	This material is not intended for ingestion and is not expected to present an ingestion hazard in the form and quantities present in a work place setting. However if ingestion occurs, seek medical attention.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

### 4.2 Key symptoms and effects

No known significant effects or critical hazards related to the materials of construction of the filter as supplied.

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## **SECTION 5 - Fire Fighting Measures**

### 5.1 Extinguishing media

Select an extinguish medium suitable for surrounding / working environment.

For filter alone use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

### 5.2 Specific Hazards

Consult the SDS details of product being filtered for specific advice. Release of glass fibres as the result of decomposition.

For the filter alone: No specific fire or explosion hazard.

Hazardous thermal decomposition products: CO, CO<sub>2</sub>, acrid and toxic smoke and fumes, Hydrogen Chloride, hydrocarbons, hydrogen cyanide, styrene, ethylbenzene, acrylonitrile, methyl methacrylate, silicon dioxide

### 5.3 Advice to Fire Fighters

Special precaution required. Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Protective gloves must be worn when handling debris after a fire.

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**SECTION 6 - Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

No special measures are required in respect of the filters in the unused condition as supplied.

For used filters always address any contaminants present on the filter as the result of use.

**6.2 Environmental precautions**

For unused filter modules, place in designated waste container appropriate to the materials of construction listed in Section 3 and dispose of in accordance with local regulations via a licenced waste disposal contractor.

For used filter modules, using clear-up, containment and appropriate PPE measures related to the product being filtered and the materials of construction detailed in Section 3.

**6.3 Spillage containment and cleaning up**

Use suitable equipment to collect the filter material and place in a designated, labelled waste container.

Care should be taken to consider the nature of any contamination on the filter as the result of use and suitable PPE employed for handling medical waste.

Dispose of waste via a licensed waste disposal contractor.

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**SECTION 7 – Handling and Storage****7.1 Handling**

Disposal/handling of the used filters should be in-line with national legislation and local regulatory requirements for the materials of construction and substances present as the result of use.

It should be noted that if during destruction of the filter as part of disposal the structural bonding of the glass fibre media is destroyed then suitable protective measures need to be taken as any resulting loose, air borne glass fibres are considered possible carcinogens by inhalation.

Due consideration must also be made to the nature of contaminants on the filters as the result of use.

Follow good hygiene practices. Eating, drinking and smoking are generally prohibited in areas where this product is handled, stored or processed – exceptions are made on the guidance of local medical advice. Staff must follow standard work-place hygiene before eating, drinking or smoking after using this product. Wear gloves to prevent contamination of the filter cartridge and maintain cleanliness of the unused filter.

**7.2 Storage**

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In the received condition, special protective equipment is not needed during handling and normal use of these filters. However, gloves are recommended to prevent contamination of the filter and maintain cleanliness. Handling of used filters must take into account the nature of potential contaminants.

The article is supplied dry, without the presence of any preserving fluid.  
Store in clean, dry conditions suitable for a medical device.

Handle with care to avoid damage.

Do not expose to direct sunlight during storage, or other radiation or direct weather conditions.  
Store in original shipping bag or boxing.  
Ensure careful handling to avoid physical damage. Ensure shipping bag and seals are intact prior to use - do not use if damaged.

Please also consult Pall for further instructions for use information on the product prior to use.

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### **SECTION 8 - Exposure Controls/Personal Protection**

#### **8.1 Control parameters**

Occupational Exposure limits: None required.

Recommended monitoring procedures: None required

#### **8.2 Exposure controls**

There are no special ventilation requirements for the article as supplied in the new and unused condition.

Hygiene Measures: No special measures required. Good hygiene practice in line with local working environmental requirements and medical guidelines.

Hand protection: Disposable gloves are recommended to ensure filter remains clean during installation.

Environmental Exposure Controls: Not normally required for the filter itself as supplied.

After the filter has been used additional exposure controls care should be taken in line with the nature of any contaminant on the filter as a result of its use.

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### **SECTION 9 - Physical and Chemical Properties**

Appearance: Disposable filter

Physical state: Solid

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Colour:	White / Blue outer housing with white filter material and variously coloured components
Solubility:	Insoluble in water  Acrylic components readily soluble in esters, ketones and chlorinated hydrocarbons
Auto-ignition temperature:	Acrylic: 440 °C (830 °F), decomposition begins at 250 °C (482 °F)  Glass Fibre: Not established  Polypropylene: > 300 °C  Polyethylene: > 300 °C  ABS: > 300 °C  Polycarbonate: > 300 °C  Silicone rubber: > 300 °C  PVC: > 300 °C  Cellulose: > 230 °C
Sensitive to shock:	Mechanical / thermal shock can result in damage to the filter

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**SECTION 10 – Stability and Reactivity**

Reactivity:	The filter is stable under the recommended conditions of use and storage.
Chemical Stability:	The filter is stable under recommended conditions of use and storage.
Hazardous Polymerisation:	Polymerisation will not occur under recommended conditions of use and storage.
Other hazardous reactions:	Consult details of product being filtered for specific advice. Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to Avoid:	Avoid conditions that soften, swell or adversely affect the filter or its materials of construction.  Do not allow fluids to freeze on the filter.
Incompatible Materials:	Strong Acids, Strong Alkalis, Strong Oxidising Agents.

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Decomposition Products: Under recommended conditions of use or storage, no hazardous decomposition products will be produced.

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### **SECTION 11 - Toxicological Information**

The information in this section contains generic advice and guidance in respect of the unused filter as supplied. Consult SDS details of the product being filtered for specific advice and recommendations.

#### **11.1 Acute Toxicity**

Irritation/Corrosion/Sensitisation: There is no data available

Mutagenicity / Carcinogenicity / Reproductive Toxicity / Teratogenicity: There is no data available

Aspiration Hazard: Not applicable for un-used filter. There is no data available

Potential acute health effects:

**Eye contact** : No known significant effects or critical hazards

**Inhalation** : None under normal conditions of use or storage. If activities that create dust are conducted, inhalation of dusts can cause nose, throat and upper respiratory tract irritation. Symptoms include coughing, sneezing and throat irritation.

**Skin contact:** Skin irritation possible

**Ingestion** : No known significant effects or critical hazards.

#### **11.2 Chronic health effects**

No known significant effects or critical hazards for the unused filter as supplied.

Carcinogenicity: No specific test data available, no evidence for hazardous properties

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### **SECTION 12 - Ecological Information**

Pall Medical filters are not expected to degrade in contact with soil or water under ambient conditions.

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### **SECTION 13 - Disposal Information**

The information in this section contains generic advice and guidance.

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### **Product**

Methods of disposal:

Unused as supplied filters: Disposal/handling of the un-used filters should be in-line with national legislation and local regulatory requirements for the materials present. Unused filter cartridges may be used as land-fill.

Hazardous Waste: To the best of our knowledge, this product if unused is not regarded as hazardous waste as defined by the EU Directive 91/689/EEC and amendments.

Used filter cartridges should be disposed of as clinical waste due to the nature of the contaminants on the filters as a result of use. Therefore used filters may be classified as hazardous – clinical waste.

Bagging: Plastic (polyethylene/polyester) except IGF1M-BULK (Polyethylene)

Box: Cardboard

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled where suitable arrangements and facilities exist. Incineration or land-fill should only be considered where re-cycling is not feasible.

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### **SECTION 14 - Transport Information**

The clean and un-used filter, supplied in its original packaging, is not classified as dangerous goods under ADR, RID, IMDG or IATA regulations.

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### **Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above Pall Corporation, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any materials is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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### APPENDIX 1

#### Sterile codes

IGF1, IGF1C, IGF1CD, IGF1E, IGF1K, IGF1L, IGF1M, IGF1Q AND IGF1R

#### Bulk packed non-sterile codes

IGF1M-BULK

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